Page 1 of 1

STIC-EIC1600/2900

From: SHOBHA KANTAMNENI [shobha kantamneni@uspto.gov]

Sent: Monday, December 22, 2008 9:43 AM

To: STIC-EIC1600/2900

Subject: Search Request, Case/Application No.: 10/719588

Requester: SHOBHA KANTAMNENI (P/1617)

Art Unit: GROUP ART UNIT 1617

Employee Number:
Office Location: REM 4A5
Phone Number: (571)272-2930

Case/Application number: 10/719588

Priority Filing Date:

Format for Search Results: No selection Meaning of unusual acronyms or initialisms:

Identify the novelty:

Additional comments:

Please, do structure search for compounds of formula (III), and formula (IV). Include closely related geminal-dialkyl substituted compounds.

Attachment: Yes (719588, Claims, Whole Document.pdf)

12/22/2008

=> d ibib abs hitstr 113 1-5

L13 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN 2005:209520 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 142:284790

TITLE: Emollient mixture for cosmetic

formulations containing dialkyl carbonates and acyclic

alkanes

INVENTOR(S): Issberner, Ulrich; Kawa, Rolf; Mitchell, Catherine;

Ansmann, Achim; Jackwerth, Bettina

Cognis Deutschland GmbH & Co. Kg, Germany PATENT ASSIGNEE(S):

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent. LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO.					KIND DATE		APPLICATION NO.						DATE				
						_									_			
EP	1512	392			A1		2005	0309	EP	200	4-2	2012	7		21	0040	325	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, G	R, I	Τ,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY, A	L, T	R,	BG,	CZ,	EE,	HU,	PL,	SK,	HR
DE	1034	1025			A1		2005	0331	DE	200	3-1	10341	1025		21	00309	903	
US	2005	00799	986		A1		2005	0414	US	200	4-9	92662	29		21	0040	326	
JP	2005	07583	33		Α		2005	0324	JP	200	4-2	25554	19		21	00409	902	
PRIORIT	Y APP	LN.	INFO	. :					DE	200	3-1	10341	1025	Ž	A 21	00309	903	

The invention concerns water-free compns. that are liquid at 20°C and normal AΒ pressure and that contain (a) 20-90 weight/weight% linear or branched dialkyl carbonates and (b) 2-95 weight/weight% C8-C40 acyclic alkanes. The compns. do not contain addnl. oils or waxes and are free of silicone oils. Selected ingredients are (a) di-n-octylcarbonate and (b) diethyldodecane, didecene or any isomere mixture of the compds.

ΙT 1680-31-5, Dioctylcarbonate 24251-86-3,

5,8-Diethyldodecane

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (emollient mixture for cosmetic formulations containing

dialkyl carbonates and acyclic alkanes)

1680-31-5 HCAPLUS RN

Carbonic acid, dioctyl ester (CA INDEX NAME) CN

Me— (CH₂) 7—0—
$$\stackrel{\circ}{\text{C}}$$
—0— (CH₂) 7—Me

24251-86-3 HCAPLUS RN

Dodecane, 5,8-diethyl- (CA INDEX NAME) CN

REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS 4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:800775 HCAPLUS Full-text

DOCUMENT NUMBER: 141:319525

TITLE: Emollient mixtures for use as petroleum mineral oil replacements in cosmetics

INVENTOR(S): Bruening, Stefan; Ansmann, Achim; Jackwerth,

Bettina; Dee, Gary

PATENT ASSIGNEE(S): Cognis Deutschland GmbH & Co. KG, Germany

SOURCE: Ger. Offen., 5 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DE 10312352 A1 20040930 DE 2003-10312352 WO 2004082641 A1 20040930 WO 2004-EP2495	20040311
	BZ. CA. CH
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, F	, C11, C11,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, E	FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, F	KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, N	MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, S	SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, Z	ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, Z	ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, I	DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, F	RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, N	MR, NE, SN,
TD, TG	
EP 1603516 A1 20051214 EP 2004-719386	20040311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, S	SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, F	HU, PL, SK
JP 2006520350 T 20060907 JP 2006-504634	20040311
US 20060280709 A1 20061214 US 2006-549953	20060803
PRIORITY APPLN. INFO.: DE 2003-10312352 A	20030320
WO 2004-EP2495 W	20040311

- AB The invention concerns emollient mixts. for the replacement of petroleum mineral oil in cosmetics; the emollients contain esters of C8-C18 fatty acids with C3-C12 alcs., esters of adipinic acid and C3-C12 alcs. in combination with poly-alpha-olefins, while the amount of esters is 10-90 weight/weight% of the total amount of ester and polyalpha olefins. Thus and emollient contained (weight/weight%): Cetiol OC 50; Synfluid PAO 50.
- IT 105-99-7, Dibutyl adipate 110-27-0, Isopropyl myristate 124-04-9D, Hexanedioic acid, esters with C3-C12 alcs. 142-91-6, Isopropyl palmitate 2425-77-6, 2-Hexyldecanol 3913-02-8, 2-Butyloctanol 5333-42-6, Eutanol G 17438-89-0, 1-Decene dimer 22047-49-0, 2-Ethylhexyl
 - stearate 29806-73-3, 2-Ethylhexyl palmitate 62132-67-6, 1-Dodecene dimer 110225-00-8, Eutanol G 16 765923-35-1
 - , 1-Dodecene dimer 110225-00-8, Eutanol G 16 765923-35-1
 , Synfluid PAO 2cSt
 - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (emollient mixts. for use as petroleum mineral oil replacements in cosmetics)
- RN 105-99-7 HCAPLUS
- CN Hexanedioic acid, 1,6-dibutyl ester (CA INDEX NAME)

RN 110-27-0 HCAPLUS CN Tetradecanoic acid, 1-methylethyl ester (CA INDEX NAME)

$$i-Pro$$
 C $(CH2)12 $Me$$

RN 124-04-9 HCAPLUS CN Hexanedioic acid (CA INDEX NAME)

RN 142-91-6 HCAPLUS CN Hexadecanoic acid, 1-methylethyl ester (CA INDEX NAME)

RN 2425-77-6 HCAPLUS CN 1-Decanol, 2-hexyl- (CA INDEX NAME)

RN 3913-02-8 HCAPLUS CN 1-Octanol, 2-butyl- (CA INDEX NAME)

RN 5333-42-6 HCAPLUS CN 1-Dodecanol, 2-octyl- (CA INDEX NAME)

RN 17438-89-0 HCAPLUS

CN 1-Decene, dimer (CA INDEX NAME)

CM 1

CRN 872-05-9 CMF C10 H20

H2C==CH-(CH2)7-Me

RN 22047-49-0 HCAPLUS

CN Octadecanoic acid, 2-ethylhexyl ester (CA INDEX NAME)

29806-73-3 HCAPLUS RN

CN Hexadecanoic acid, 2-ethylhexyl ester (CA INDEX NAME)

RN 62132-67-6 HCAPLUS

1-Dodecene, dimer (CA INDEX NAME) CN

CM 1

CRN 112-41-4 CMF C12 H24

RN 110225-00-8 HCAPLUS

1-Dodecanol, 2-hexyl- (CA INDEX NAME) CN

RN 765923-35-1 HCAPLUS

Synfluid PAO 2cSt (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L13 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:467310 HCAPLUS Full-text

10/719,588 DOCUMENT NUMBER: 139:41466 TITLE: Cosmetic and pharmaceutical emollients containing 2-methyl-1,3-propanediol diesters INVENTOR(S): Prinz, Daniela; Westfechtel, Alfred PATENT ASSIGNEE(S): Cognis Deutschland G.m.b.H. & Co. K.-G., Germany SOURCE: Ger. Offen., 12 pp. CODEN: GWXXBX DOCUMENT TYPE: Patent LANGUAGE: German FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE _____ ____ _____ _____ DE 10160682 A1 20030618 DE 2001-10160682 20011211 A2 20030703 WO 2002-EP13695 A3 20040115 WO 2003053373 20021204 WO 2003053373 W: AU, BR, CA, CN, JP, KR, MX, US RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR AU 2002364280 A1 20030709 AU 2002-364280 20021204 EP 1453473 A2 20040908 EP 2002-799052 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK T 20050602 JP 2003-554133 US 2004-498599 JP 2005516019 20021204 20050127 US 20050019353 A1 20040610 PRIORITY APPLN. INFO.: DE 2001-10160682 A 20011211 WO 2002-EP13695 W 20021204 OTHER SOURCE(S): MARPAT 139:41466 The invention concerns emollients for cosmetic and pharmaceutical applications that contain 2-methyl-1,3-propanediol diesters, especially 2-Methyl-1,3-Propanediol dilauryl ester. 2-Methyl-1,3-Propanediol is esterified with the carboxylic acid in the presence of tin oxyde catalyst, the product is filtered and purified by distillation Emollient compns. contain (weight/weight%): 2methyl-1,3-propanediol diesters 0.1-50; surfactants, emulsifiers, coemulsifiers 0.1-20; oily bodies 0.1-40; water 0-98. 7732-18-5, Water, biological studies TΤ RL: BSU (Biological study, unclassified); BIOL (Biological study) (cosmetic and pharmaceutical emollients containing 2-Me-1,3-propanediol diesters) 7732-18-5 HCAPLUS RN CN Water (CA INDEX NAME) H20 1332-29-2, Tin oxide ΙT RL: CAT (Catalyst use); USES (Uses) (cosmetic and pharmaceutical emollients containing 2-Me-1,3-propanediol diesters) 1332-29-2 HCAPLUS RN Tin oxide (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 540730-50-5P

RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cosmetic and pharmaceutical emollients containing 2-Me-1,3-propanediol diesters)

RN 540730-50-5 HCAPLUS

CN Dodecanoic acid, 2-methyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)

IT 2163-42-0D, 2-Methyl-1,3-Propanediol, diesters

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cosmetic and pharmaceutical emollients containing

2-Me-1,3-propanediol diesters)

RN 2163-42-0 HCAPLUS

CN 1,3-Propanediol, 2-methyl- (CA INDEX NAME)

IT 143-07-7, Lauric acid, reactions 2163-42-0,

2-Methyl-1,3-Propanediol

RL: RCT (Reactant); RACT (Reactant or reagent)

(cosmetic and pharmaceutical emollients containing

2-Me-1,3-propanediol diesters)

RN 143-07-7 HCAPLUS

CN Dodecanoic acid (CA INDEX NAME)

RN 2163-42-0 HCAPLUS

CN 1,3-Propanediol, 2-methyl- (CA INDEX NAME)

L13 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:467309 HCAPLUS Full-text

DOCUMENT NUMBER: 139:41465

TITLE: Cosmetic and pharmaceutical

emollients containing 2-methyl-1,3-propanediol

monoesters

INVENTOR(S): Prinz, Daniela; Westfechtel, Alfred

; Seipel, Werner

PATENT ASSIGNEE(S): Cognis Deutschland G.m.b.H. & Co. K.-G., Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.					KIN	D	DATE	P	APP	LICAT	DATE						
	DE	1016	 0681			A1	_	2003	0618	_ _	DE	2001-	1016	 0681		2	 0011	211
	WO	2003053907			A1		20030703			WO 2002-EP13694						20021204		
		W:	ΑU,	BR,	CA,	CN,	JP,	KR,	MX,	US								
		RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE	, ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,
			LU,	MC,	NL,	PT,	SE,	SI,	SK,	TR								
	AU	2002	3585	94		A1		2003	0709	P	U	2002-	3585	94		2	0021	204
	ΕP	1472	211			A1		2004	1103	E	EΡ	2002-	7928	79		2	0021	204
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	FI,	CY,	TR,	BG,	CZ,	EE,	SK							
	JΡ	2005	5131	21		Τ		2005	0512	J	JΡ	2003-	5546	24		2	0021	204
	US	2005	0089	497		A1		2005	0428	Ü	JS	2004-	4986	64		2	0040	610
PRIO	RITY	APP:	LN.	INFO	.:					Ε	ÞΕ	2001-	1016	0681		A 2	0011	211
										M	O	2002-	EP13	694	,	W 2	0021	204

OTHER SOURCE(S): MARPAT 139:41465

The invention concerns emollients for cosmetic and pharmaceutical applications that contain 2-methyl-1,3-propanediol monoesters, especially 2-Methyl-1,3-Propanediol lauryl monoester. 2-Methyl-1,3-Propanediol is esterified with the carboxylic acid in the presence of tin oxyde catalyst, the product is filtered and purified by distillation Emollient compns. contain (weight/weight%): 2-methyl-1,3-propanediol monoesters 0.1-50; surfactants, emulsifiers, coemulsifiers 0.1-20; oily bodies 0.1-40; water 0-98.

IT 1332-29-2, Tin oxide 7732-18-5, Water, uses

RL: CAT (Catalyst use); USES (Uses)

(cosmetic and pharmaceutical emollients containing

2-Me-1,3-propanediol monoesters)

RN 1332-29-2 HCAPLUS

CN Tin oxide (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 7732-18-5 HCAPLUS

CN Water (CA INDEX NAME)

H20

IT 540731-01-9P

RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cosmetic and pharmaceutical emollients containing

2-Me-1,3-propanediol monoesters)

RN 540731-01-9 HCAPLUS

CN Dodecanoic acid, 3-hydroxy-2-methylpropyl ester (CA INDEX NAME)

IT 2163-42-0D, 2-Methyl-1,3-Propanediol, diesters
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(cosmetic and pharmaceutical emollients containing

2-Me-1,3-propanediol monoesters)

RN 2163-42-0 HCAPLUS

CN 1,3-Propanediol, 2-methyl- (CA INDEX NAME)

Ме но— СH₂—СH—СH₂—ОН

IT 143-07-7, Lauric acid, reactions 2163-42-0,

2-Methyl-1,3-Propanediol

RL: RCT (Reactant); RACT (Reactant or reagent)

(cosmetic and pharmaceutical emollients containing

2-Me-1,3-propanediol monoesters)

RN 143-07-7 HCAPLUS

CN Dodecanoic acid (CA INDEX NAME)

 ${\tt HO_2C-\!\!\!\!\!--}$ (CH₂)₁₀---Me

RN 2163-42-0 HCAPLUS

CN 1,3-Propanediol, 2-methyl- (CA INDEX NAME)

L13 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1991:686912 HCAPLUS Full-text

DOCUMENT NUMBER: 115:286912

ORIGINAL REFERENCE NO.: 115:48597a,48600a

TITLE: Cosmetic water-in-oil emulsions. How to

formulate elegant skin care products

AUTHOR(S): Ansmann, Achim; Kawa, Rolf

CORPORATE SOURCE: Henkel K.-G.a.A., Duesseldorf, W-4000/1, Germany SOURCE: Seifen, Oele, Fette, Wachse (1991), 117(10), 369-71

CODEN: SOFWAF; ISSN: 0173-5500

DOCUMENT TYPE: Journal LANGUAGE: English

AB The influence of emollients and novel water-in-oil (w/o) emulsifiers on the viscosities and stabilities of w/o emulsions for cosmetic creams and lotions was investigated. For the creams, viscosity correlated with the viscosity and mol. masses of the emollients, yet surprisingly stability decreased with increasing viscosity; a consequence of an unfavorable ratio of the mol. mass of the emollient (e.g. Myritol 318, Cetiol J600) to the emulsifiers (Monomuls 90-018, Lameform TGI) employed. The addnl. deployment of Dehymuls FCE (dicocyl pentaerythrityl distearyl citrate as a high-mol.-weight coemulsifier, however, resulted in improved stability. For lotions employing Dehymuls HRE 7 (PEG 7-hydrogenated castor oil) as emulsifier, viscosity again correlated with the mol. weight of the emollient, yet stability was only correlated with emollient polarity; destabilization occurred if the lipophilic part of the

emulsifier was unable to aggregate in its appropriate configuration. Emolliants or mixts, thereof with medium polarity (e.g. Cetiol LC) gave w/o lotions with excellent stability.

IT 112-10-7, Emerest 2310 142-91-6 5333-42-6, Eutanol G 17673-56-2, Cetiol J 600 22047-49-0, Cetiol

868 29806-73-3, Cegesoft C 24 34316-64-8, Cetiol A

52623-82-2, Cetiol LC 68171-38-0, Emerest 2384

137802-13-2, Cetiol SN

RL: BIOL (Biological study)

(cosmetic emollient, water-in-oil emulsion-based

creams and lotions containing, viscosity and stability of, mol. weight and polarity in relation to)

112-10-7 HCAPLUS RN

Octadecanoic acid, 1-methylethyl ester (CA INDEX NAME) CN

RN 142-91-6 HCAPLUS

Hexadecanoic acid, 1-methylethyl ester (CA INDEX NAME) CN

5333-42-6 HCAPLUS RN

1-Dodecanol, 2-octyl- (CA INDEX NAME) CN

17673-56-2 HCAPLUS RN

13-Docosenoic acid, (9Z)-9-octadecen-1-yl ester, (13Z)- (CA INDEX NAME) CN

Double bond geometry as shown.

Me (CH₂) 7
$$\underline{Z}$$
 (CH₂) 8 $\underbrace{CH_{2}}_{\text{(CH2)}}$ (CH₂) $\underbrace{T_{1} \quad \overline{Z}}_{\text{(CH2)}}$ (CH₂) $\underbrace{T_{1} \quad \overline{Z}}_{\text{(CH2)}}$

22047-49-0 HCAPLUS RN

Octadecanoic acid, 2-ethylhexyl ester (CA INDEX NAME) CN

RN 29806-73-3 HCAPLUS

CN Hexadecanoic acid, 2-ethylhexyl ester (CA INDEX NAME)

RN 34316-64-8 HCAPLUS

CN Dodecanoic acid, hexyl ester (CA INDEX NAME)

RN 52623-82-2 HCAPLUS

CN Cetiol LC (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 68171-38-0 HCAPLUS

CN Isooctadecanoic acid, monoester with 1,2-propanediol (CA INDEX NAME)

CM 1

CRN 30399-84-9

CMF C18 H36 O2

CCI IDS

CM 2

CRN 57-55-6 CMF C3 H8 O2

RN 137802-13-2 HCAPLUS

CN Cetiol SN (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 137802-27-8, Dehymuls FCE

RL: BIOL (Biological study)

(cosmetic water-in-oil emulsion-based creams stabilization

with, emollient mol. weight in relation to)

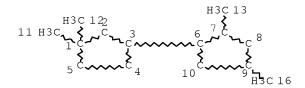
RN 137802-27-8 HCAPLUS

CN Dehymuls FCE (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RESULTS FROM REGISTRY AND CAPLUS

=> d que stat 127 L17 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

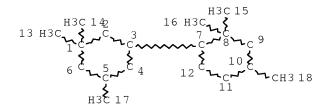
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L19 4 SEA FILE=REGISTRY SSS FUL L17

L23 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L25 7 SEA FILE=REGISTRY SSS FUL L23

L26 11 SEA FILE=REGISTRY ABB=ON L19 OR L25

L27 6 SEA FILE=HCAPLUS ABB=ON L26

=> d ibib abs hitstr 127 1-6

L27 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:1005999 HCAPLUS Full-text

DOCUMENT NUMBER: 145:377978

TITLE: Active ray-curable composition having good storage

stability and sensitivity, polymerization method, active ray-curable ink, image-forming method and ink

jet recorder

INVENTOR(S): Ookubo, Kimihiko; Miura, Norio; Kurata, Takeshi

PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan

SOURCE: PCT Int. Appl., 114pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.				KIND DATE			APPLICATION NO.						DATE				
	WO 2006100978				A1 20060928			WO 2006-JP305110						20060315				
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KN,	KP,	KR,
			KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
			MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
			SG,	SK,	SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,
			VN,	YU,	ZA,	ZM,	ZW											
		RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
			IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
			CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
			GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	KΖ,	MD,	RU,	ТJ,	TM										
PRIO	PRIORITY APPLN. INFO.:										JP 2	005-	7919	8		A 2	0050	318

OTHER SOURCE(S): MARPAT 145:377978

GΙ

$$\begin{array}{c|c}
X & R^4 \\
R^3 & I \\
R^4 & I
\end{array}$$

$$\begin{array}{c}
R^5 \\
R^6 \\
R^2 \\
R^6
\end{array}$$

The composition can give a cured film having sufficiently high hardness both before and after long-term storage in various environments, particularly in highly humid atmospheric. The active ray-curable composition contains a compound represented by the formula I (X, Y = 0, S; L = direct bond or linking group; R3, R4, R5, R6 = H, alkyl; R1, R2 = substituent group; h, i = 0, 1 or 2; j, k = 0-9; a = 0, 1; when a = 0 then L connects to C atom substituted by R5). The composition is useful for ink-jet ink with good printability and storage stability. Thus, stirring 10 g di(5,5-dimethyl-2,3-epoxycyclohexane) with 1 g trifluoromethanesulfonic acid in 20 mL dichloroethane while heating at reflux under N for 30 min, adding 2 g triethylamine to stop the reaction, precipitating the reaction product with 20 mL MeOH and isolating gave a radiation-curable resin.

IT 910796-01-9P 910796-20-2P 910796-33-7P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

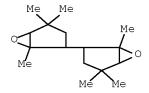
(manufacture of highly sensitive and storage-stable cyclic epoxy resins for radiation-curable ink-jet inks with good printability)

RN 910796-01-9 HCAPLUS

CN 2,2'-Bi-6-oxabicyclo[3.1.0]hexane, 1,1',4,4,4',4'-hexamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 910796-00-8 CMF C16 H26 O2

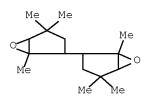


RN 910796-20-2 HCAPLUS

CN 2,2'-Bi-6-oxabicyclo[3.1.0]hexane, 1,1',4,4,4',4'-hexamethyl-, polymer with 3-ethyl-3-[[(2-ethylhexyl)oxy]methyl]oxetane (9CI) (CA INDEX NAME)

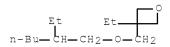
CM 1

CRN 910796-00-8 CMF C16 H26 O2



CM 2

CRN 298695-60-0 CMF C14 H28 O2

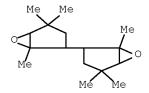


RN 910796-33-7 HCAPLUS

CN 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 6-methyl-, 2-ethylhexyl ester, polymer with 1,1',4,4,4',4'-hexamethyl-2,2'-bi-6-oxabicyclo[3.1.0]hexane and 3,3'-[oxybis(methylene)]bis[3-ethyloxetane] (9CI) (CA INDEX NAME)

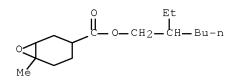
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CRN 910796-00-8 CMF C16 H26 O2



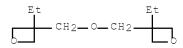
CM 2

CRN 865364-47-2 CMF C16 H28 O3



CM 3

CRN 18934-00-4 CMF C12 H22 O3



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2000:721217 HCAPLUS Full-text

DOCUMENT NUMBER: 134:17609

TITLE: A concise preparation of yuehchukene and its analogues AUTHOR(S): Ishikura, Minoru; Imaizumi, Katsuaki; Katagiri, Nobuya CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Health Sciences University of Hokkaido, Hokkaido, 061-0293, Japan

SOURCE: Heterocycles (2000), 53(10), 2201-2220

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:17609

AB The palladium catalyzed carbonylative cross-coupling reaction of indolylborates with vinyl triflates afforded indol-2-yl ketones, which were subsequently converted to hexahydroindeno[2,1-b]indoles with the aid of an acid. This protocol was well adapted for the total synthesis of yuehchukene.

IT 309718-46-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (concise preparation of yuehchukene and its analogs)

RN 309718-46-5 HCAPLUS

CN 2-Cyclohexen-1-one, 2-(1-hydroxy-4,6,6-trimethyl-2-cyclohexen-1-yl)-4,6,6-trimethyl- (CA INDEX NAME)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1976:16961 HCAPLUS Full-text

DOCUMENT NUMBER: 84:16961
ORIGINAL REFERENCE NO.: 84:2791a,2794a
TITLE: Aldol condensates

INVENTOR(S): Koester, Roland; Pourzal, Ali-Akbar

PATENT ASSIGNEE(S): Studiengesellschaft Kohle m.b.H., Fed. Rep. Ger.

SOURCE: Ger. Offen., 25 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2417357	A1	19751016	DE 1974-2417357		19740409
DE 2417357	В2	19760415			
DE 2417357	C3	19761209			
JP 50131915	A	19751018	JP 1974-52761		19740511
CA 1026319	A1	19780214	CA 1974-214407		19741122
PRIORITY APPLN. IN	FO.:		DE 1974-2417357	Α	19740409

- AB Aldol condensations between carbonyl compound components A and B (A = B, A \neq B) carried out in the presence of R2BOCOR1 (R = Et, Pr; R1 = Me, Et, Ph, etc.) gave 63-98% of dimeric condensation products having \geq 95% purity. Thus, EtCOPh reacted in the presence of Et2BOCOCMe3 to give 97% dimeric condensation product of 98% purity.
- IT 57558-61-9P

RN 57558-61-9 HCAPLUS

CN 2-Cyclohexen-1-one, 3,5,5-trimethyl-6-(3,3,5-trimethyl-1,5-cyclohexadien-1-yl)- (CA INDEX NAME)

L27 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1970:509343 HCAPLUS Full-text

DOCUMENT NUMBER: 73:109343

ORIGINAL REFERENCE NO.: 73:17795a,17798a

TITLE: Unusually stable salt from isophorone and hydrogen

bromide

AUTHOR(S): Marx, John N.

CORPORATE SOURCE: Dep. of Chem., Texas Tech. Univ., Lubbock, TX, USA

SOURCE: Tetrahedron Letters (1970), (40), 3517-20

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB I is obtained when HBr is passed into neat isophorone, and addnl. HBr gives II. I is stable at room temperature in the absence of moisture and light. I

is heated in a sealed tube at 70° to give the dimer, III.

IT 29770-82-9P

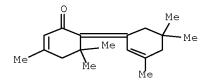
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 29770-82-9 HCAPLUS

CN 2-Cyclohexen-1-one, 3,5,5-trimethyl-6-(3,5,5-trimethyl-2-cyclohexen-1-

ylidene) - (CA INDEX NAME)



L27 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1967:37579 HCAPLUS Full-text

DOCUMENT NUMBER: 66:37579
ORIGINAL REFERENCE NO.: 66:7127a,7130a

TITLE: Condensations of the chloromagnesium derivative of

tert-butyl acetate with ketones in ether. III.

Synthesis of $\beta\text{-hydroxylated}$ and $\beta\text{,}\delta\text{-dihydroxylated}$ derivatives in the

cyclo-alkane and aromatic series

AUTHOR(S): Maroni-Barnaud, Yvette; Gilard, Guy; Montalla, Andre;

Perry, Marcel; Dubois, Jacques E.

CORPORATE SOURCE: Lab. Chim. Org. Phys., Paris, Fr.

SOURCE: Bulletin de la Societe Chimique de France (1966),

(10), 3243-9

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal LANGUAGE: French

AB cf. CA 64, 19471e. The chloromagnesium derivative of tert-BuOAc (I) was prepared in situ by mixing 2.25-2.5 moles of iso-PrMgCl with 1 mole I in Et2O. Addition of 0.5 equivs. (ketone to the mixture and refluxing 2 hrs. gives a β -hydroxy ester >C(OH)CH2CO2Bu-tert (II). The following II were prepared (ketone used, % yield of II, and b.p. or m.p. of II given): cyclopentanone (III), 72, b1 71-2°; cyclohexanone (IV), 70, b1 82-3°; 3,3,5-

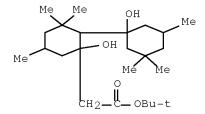
trimethylcyclohexanone (V), 75, b1 93-4°; 4-tert-butylcyclohexane (VI), 45, m. 57°; methone, 68, b1 113-14°; acetophenone (VII), 67, m. 57°; menthone, 68, b1 113-14°; acetophenone (VII), 67, m. 34°; p-methylacetophenone, 66, m. 39°; p-isopropylacetophenone (VIII), 36, b1 121-22°; p-chloroacetophenone (IX), 76, m. 45°; p-methoxyacetophenone (X), 62, m. 34°; propiophenone (XI), 65, b1 108-9°; isobutyrophenone (XII), 66, m. 40°; fluorenone, 60, m. 79°. II in dioxane were hydrolyzed with concentrated HCl to the corresponding acid. Thus were prepared (ketone used, % yield acid, and m.p. acid given): III, 75, 77°; IV, 61, 65°; V 80, 117°; VI, 74, 151°; IX, 45, 112°; XI, 45, 121°; XII, 51, 117°; butyrophenone (XIII), 48, 122°. If the reaction is carried out in one step by refluxing a mixture of ketone, iso-PrMgCl, and I in Et2O, the principal product is β , δ -dihydroxy ester (XIV). A mechanism is suggested. The following XIV were prepared (ketones used, % yield of XIV, and m.p. given): III, 50, 95°; IV, 62, 113°; V 4, 121°; VII, 50, 163°; VIII, 2, 172°; X, 5, 146°, XII, 50, 126°; XIII, 25, 121°.

IT 13278-31-4P

RN 13278-31-4 HCAPLUS

CN [1,1'-Bicyclohexyl]-2-acetic acid,

1', 2-dihydroxy-3', 3', 4, 5', 6, 6-hexamethyl-, 1, 1-dimethylethyl ester (CA INDEX NAME)



L27 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1947:4829 HCAPLUS

DOCUMENT NUMBER: 41:4829

ORIGINAL REFERENCE NO.: 41:991h-i,992a-b

TITLE: Ketols from isophorones and their homologs

INVENTOR(S): Ballard, Seaver A.; Haury, Vernon E.

PATENT ASSIGNEE(S): Shell Development Co.

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GI For diagram(s), see printed CA Issue.

AB The preparation of crystalline diisophorone (I), isomeric with the diisophorone prepared by Ruzicka (C.A. 15, 514) and found to be unfit for insecticidal compns., by the condensation of isophorone (II) in the presence of an alkali metal hydroxide catalyst is described. Thus from a mixture of II 4 and 60% aqueous NaOH 1 part, heated at 145° 1.5 hrs., with stirring, in a Ni kettle, the supernatant liquid cooled, decanted, and distilled at 1-2 mm., was obtained I, colorless, m. 83.5-4.5° (from EtOH); semicarbazone m. 205-8°. The converted II (about 61%) consisted by weight of 83.5% diisophorone, 10.5%

higher products, and 6% H2O. NaOEt and solid NaOH can also be used as condensing agents. I is a useful insecticide, bactericide, fungicide, plasticizer, and synthetic intermediate.

IT 854726-52-6P, 2-Cyclohexen-1-one,

6-(1-hydroxy-3,5,5-trimethyl-2-cyclohexen-1-yl)-3,5,5-trimethyl-, semicarbazone 854726-54-8F, 2-Cyclohexen-1-one,

6-(1-hydroxy-3,5,5-trimethyl-2-cyclohexen-1-yl)-3,5,5-trimethyl-RL: PREP (Preparation)

(preparation of)

RN 854726-52-6 HCAPLUS

CN Hydrazinecarboxamide, 2-[6-(1-hydroxy-3,5,5-trimethyl-2-cyclohexen-1-yl)-3,5,5-trimethyl-2-cyclohexen-1-ylidene]- (CA INDEX NAME)

RN 854726-54-8 HCAPLUS

CN 2-Cyclohexen-1-one, 6-(1-hydroxy-3,5,5-trimethyl-2-cyclohexen-1-yl)-3,5,5-trimethyl- (CA INDEX NAME)

SEARCH HISTORY

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FILE HCAPLUS

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New CAS Information Use Policies, enter HELP USAGETERMS for details.

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